



Reactive Nanoengineered Coatings



MURI-01

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Goal: Use flakes, reactions for less permeable coatings.

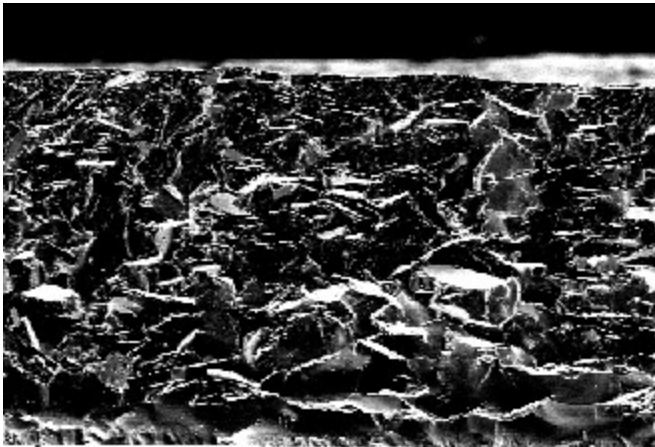
Approach:

- PVA, Epoxy model systems
- Explore flake alignment
- Measure Permeability

DOD Benefit:

- Significant Increase in Coating Life
- Increased Corrosion Protection
- Reduced Aircraft Lifecycle Costs

Alignment in



Mica in 350 μm Epoxy

Reduced Permeation in PVA

